

IN THE CLAIMS

Claims 1-21 (Canceled).

22. (New) A system supporting voice communication via a packet network, the system comprising:

at least one processor capable of receiving, via the packet network, a message requesting setup of a voice call, the message comprising a destination address;

the at least one processor capable of sending, via a conventional telephone switching network link, signals based upon the destination address requesting setup of the voice call;

the at least one processor capable of receiving, via the conventional telephone switching network link, signals representing call status;

the at least one processor capable of establishing communication of signals representative of voice between the packet network and the conventional telephone switching network link, if call status indicating establishment of a connection is received; and

the at least one processor capable of refraining from establishing communication of signals representative of voice between the packet network and the conventional telephone switching network link, if call status indicating establishment of a connection is not received.

23. (New) The system of claim 22 wherein the destination address comprises one of an Internet protocol (IP) address and a telephone number.

24. (New) The system of claim 22 wherein the conventional telephone switching network link is an analog communication link.

25. (New) The system of claim 24 wherein the signals representative of voice comprise modem signals.

26. (New) The system of claim 22 wherein the call status represents one of a busy condition, a ringing condition, and connection established condition.

27. (New) The system of claim 22 wherein the establishing comprises converting information received from the packet network for transmission via the conventional telephone switching network link, and converting information received from the conventional telephone switching network link for transmission via the packet network.

28. (New) The system of claim 27 wherein converting information received from the conventional telephone switching network link comprises:

determining voice activity based upon the information received from the conventional switched circuit network link;

reducing the quantity of information transmitted via the packet network, if voice activity is determined to be below a predetermined level; and

refraining from reducing the quantity of information transmitted via the packet network, if voice activity is determined not to be below the predetermined level.

29. (New) The system of claim 27 wherein the establishing comprises converting analog representations of voice signals to digital representations of voice signals, and converting digital representations of voice signals to analog representations of voice signals.

30. (New) The system of claim 29 wherein the converting digital representations of voice signals to analog representations of voice signals comprises buffering the digital representations for a period of time in order to minimize gaps in the resulting analog representation caused by changes in a propagation delay.

31. (New) The system of claim 22 wherein establishing voice communication comprises establishing communication of data.

32. (New) A method supporting voice communication via a packet network, the system comprising:

receiving, via the packet network, a message requesting setup of a voice call, the message comprising a destination address;

sending, via a conventional telephone switching network link, signals based upon the destination address requesting setup of the voice call;

receiving, via the conventional telephone switching network link, signals representing call status;

establishing communication of signals representative of voice between the packet network and the conventional telephone switching network link, if call status indicating establishment of a connection is received; and

refraining from establishing communication of signals representative of voice between the packet network and the conventional telephone switching network link, if call status indicating establishment of a connection is not received.

33. (New) The method of claim 32 wherein the destination address comprises one of an Internet protocol (IP) address and a telephone number.

34. (New) The method of claim 32 wherein the conventional telephone switching network link is an analog communication link.

35. (New) The method of claim 34 wherein the signals representative of voice comprise modem signals.

36. (New) The method of claim 32 wherein the call status represents one of a busy condition, a ringing condition, and connection established condition.

37. (New) The method of claim 32 wherein the establishing comprises converting information received from the packet network for transmission via the conventional telephone switching network link, and converting information received from the conventional telephone switching network link for transmission via the packet network.

38. (New) The method of claim 37 wherein converting information received from the conventional telephone switching network link comprises:

determining voice activity based upon the information received from the conventional switched circuit network link;

reducing the quantity of information transmitted via the packet network, if voice activity is determined to be below a predetermined level; and

refraining from reducing the quantity of information transmitted via the packet network, if voice activity is determined not to be below the predetermined level.

39. (New) The method of claim 37 wherein the establishing comprises converting analog representations of voice signals to digital representations of voice signals, and converting digital representations of voice signals to analog representations of voice signals.

40. (New) The method of claim 39 wherein the converting digital representations of voice signals to analog representations of voice signals comprises buffering the digital representations for a period of time in order to minimize gaps in the resulting analog representation caused by changes in a propagation delay.

41. (New) The method of claim 32 wherein establishing voice communication comprises establishing communication of data.

42. (New) A system supporting voice communication via a packet network, the system comprising:

at least one processor capable of receiving, via a conventional telephone switching network link, an indication of an incoming voice call;

the at least one processor capable of accepting, via the conventional telephone switching network link, a destination address;

the at least one processor capable of identifying a packet network address based upon the destination address;

the at least one processor capable of sending, via the packet network using the identified packet network address, a message requesting setup of the voice call;

the at least one processor capable of receiving, via the packet network, a message indicating call status;

the at least one processor capable of establishing voice communication between the packet network and the conventional telephone switching network link, if call status indicating establishment of a connection is received; and

the at least one processor capable of refraining from establishing voice communication between the wireless packet communication link and the one of the plurality of wired communication links, if call status indicating establishment of a connection is not received.

43. (New) The system of claim 42 wherein the conventional telephone switching network link is an analog communication link.

44. (New) The system of claim 42 wherein the call status represents one of a busy condition, a ringing condition, and connection established condition.

45. (New) The system of claim 42 wherein establishing comprises converting information received from the packet network for transmission via the conventional telephone switching network link, and converting information received from the conventional telephone switching network link for transmission via the packet network.

46. (New) The system of claim 45 wherein converting information received from the conventional telephone switching network link comprises:

determining voice activity based upon the information received from the conventional switched circuit network link;

reducing the quantity of information transmitted via the packet network, if voice activity is determined to be below a predetermined level; and

refraining from reducing the quantity of information transmitted via the packet network, if voice activity is determined not to be below the predetermined level.

47. (New) The system of claim 42 wherein establishing comprises converting analog representations of voice signals to digital representations of voice signals, and converting digital representations of voice signals to analog representations of voice signals.

48. (New) The system of claim 47 wherein the converting digital representations of voice signals to analog representations of voice signals comprises buffering the digital representations for a period of time in order to minimize gaps in the resulting analog representation caused by changes in a propagation delay.

49. (New) The system of claim 42 wherein establishing voice communication comprises establishing communication of data.

50. (New) A method supporting voice communication via a packet network, the system comprising:

receiving, via a conventional telephone switching network link, an indication of an incoming voice call;

accepting, via the conventional telephone switching network link, a destination address;

identifying a packet network address based upon the destination address;

sending, via the packet network using the identified packet network address, a message requesting setup of the voice call;

receiving, via the packet network, a message indicating call status;

establishing voice communication between the packet network and the conventional telephone switching network link, if call status indicating establishment of a connection is received; and

refraining from establishing voice communication between the wireless packet communication link and the conventional telephone switching link, if call status indicating establishment of a connection is not received.

51. (New) The method of claim 50 wherein the conventional telephone switching network link is an analog communication link.

52. (New) The method of claim 50 wherein the call status represents one of a busy condition, a ringing condition, and connection established condition.

53. (New) The method of claim 50 wherein establishing comprises converting information received from the packet network for transmission via the conventional telephone switching network link, and converting information received from the conventional telephone switching network link for transmission via the packet network.

54. (New) The method of claim 53 wherein converting information received from the conventional telephone switching network link comprises:

determining voice activity based upon the information received from the conventional switched circuit network link;

reducing the quantity of information transmitted via the packet network, if voice activity is determined to be below a predetermined level; and

refraining from reducing the quantity of information transmitted via the packet network, if voice activity is determined not to be below the predetermined level.

55. (New) The method of claim 50 wherein establishing comprises converting analog representations of voice signals to digital representations of voice signals, and converting digital representations of voice signals to analog representations of voice signals.

56. (New) The method of claim 55 wherein the converting digital representations of voice signals to analog representations of voice signals comprises buffering the digital representations for a period of time in order to minimize gaps in the resulting analog representation caused by changes in a propagation delay.

57. (New) The method of claim 50 wherein establishing voice communication comprises establishing communication of data.